

Changan Chen

Contact	TASC-1 8000 Simon Fraser University British Columbia, V5A 1S6 Canada	+1 778 863 9227 changan.chen@sfu.ca changan.io GITHUB SCHOLAR
Education	Simon Fraser University , Vancouver, Canada B.Sc in Computing Science Dual Degree Program. GPA: 4.14/4.33	Sept. 2016 - Present
	Zhejiang University , Hangzhou, China B.Eng in Computer Science Dual Degree Program. GPA: 3.64/4.00	Sept. 2014 - Aug. 2016
Research Interests	Computer vision, robotics and machine learning <i>Visual Learning with Embodied Agents</i>	
Research Experience	Research Intern - Prof. Alexandre Alahi Visual Intelligence for Transportation Laboratory, École Polytechnique Fédérale de Lausanne (EPFL) • Enabled autonomous agents to navigate through crowds by modeling the crowd-robot interaction with 2D coordinate inputs. • Further formulated interaction modeling with visual input, which goes beyond agent-based planning to region-based planning.	May 2018 - Present Lausanne, Switzerland
	Research Assistant - Prof. Greg Mori Vision and Media Lab, Simon Fraser University (SFU) • Attempted to discover the set of action classes in sports videos with unsupervised learning by leveraging the video commentaries. • Studied overcoming the greediness of traditional linkage criteria in agglomerative clustering with reinforcement learning approach. • Investigated tacking the deep network compression under operational constraints from the perspective of constrained Bayesian optimization, which is guided by a novel constraint cooling strategy.	May 2017 - April 2018 Vancouver, Canada
Publications	Constraint-aware Deep Neural Network Compression <i>European Conference on Computer Vision (ECCV) 2018</i> Changan Chen , Fred Tung, Naveen Vedula, Greg Mori	
Preprints	Crowd-Robot Interaction: Crowd-aware Robot Navigation with Attention-based Deep Reinforcement Learning <i>In Submission to International Conference on Robotics and Automation (ICRA) 2019</i> Changan Chen , Yuejiang Liu, Sven Kreiss, Alexandre Alahi	
	Visual Navigation in Crowds <i>In Submission to Computer Vision and Pattern Recognition (CVPR) 2019</i> Changan Chen , Yuejiang Liu, Sven Kreiss, Greg Mori, Alexandre Alahi	
Conference Presentations	Constraint-aware Deep Neural Network Compression <i>Poster session presented at ECCV 2018, Munich, Germany</i>	Sept. 2018

	Constraint-aware Deep Neural Network Compression <i>Poster presentation at SFU-ZJU Joint Symposium, Hangzhou, China</i>	May 2018
Invited Talks	Navigation in Crowds: From 2D Navigation to Visual Navigation <i>Invited Talk at SwissAI Meetup, Lausanne, Switzerland</i>	Dec. 2018
	Crowd-aware Robot Navigation with Attention-based Deep Reinforcement Learning <i>Invited Talk at Swiss Machine Learning Day, Lausanne, Switzerland</i>	Nov. 2018
Honors & Awards	President's & Dean's Honour Roll	Oct. 2017
	SFU Alumni Scholarship	Sept. 2017
	SFU Alumni Scholarship	Jan. 2017
	Simon Fraser University Entrance Award	Sept. 2016
Community Service	Love Caravan, <i>Volunteer</i> Providing company for residents in senior houses and assisting in organizing activities.	May 2017 - April 2018